

From: Agilent Technologies <tmcustomerresponse@agilent.com>
Sent: Friday, February 01, 2013 4:18 PM
To: Hanchett, James (DPH)
Subject: AeroDef News: HH DMM giveaway, RF interference, Jamming signals

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Discover ways to deal more effectively with RF interference and jamming signals

Get a complimentary 2013 Aerospace & Defense Calendar
Simplify multichannel capture of RF interference signals
Explore new tools for your radar test challenges
Carry precision into the field with handheld analyzers
Accelerate multiantenna calibration and testing
Eliminate RF interference problems with XCOM – Solution Partner Highlight
Analyze frequency stability with new tool
Handheld DMM wireless remote connectivity solution (WRC) giveaway

Dear James,
Versatile measurement solutions will help you meet the present and future requirements of your programs and missions. With Agilent, you can choose the instruments that work best for your evolving needs in test and measurement. Working together, we can challenge the boundaries of test to help increase mission success, accelerate time-to-deployment and achieve a lower cost of test.

In this issue of our quarterly newsletter, you'll see several application notes, videos and solutions focused on the topic of RF interference, including the capture and playback of unexpected signals.

Please **contact us** for help choosing the best test solutions for your specific application.

Sincerely,

Karen Hall
Market Development Manager
Agilent Technologies
more AD news

1-800-829-4444 (US)
1-877-894-4414 (Canada)
contact an expert ~ find a solution



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Simplify multichannel capture of RF interference signals



In today's complex RF environment, any signal you don't expect is interference. Intermittent failure modes make data capture especially challenging, and it can be difficult to set up a successful measurement. To ensure gapless capture of RF and microwave signals, read a recent application note and view the on-demand webinar.

[more information >](#)

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Get the latest articles, application note and briefs that address your measurement challenges:

- *RF Technology International* article: **Digital Baseband and RF Domain Integration Challenges in Radar Systems**
- *Microwave Journal* article: **The Ins and Outs of Microwave Signal Capture and Playback**
- *MPD* article: **New Techniques Simplify Military Frequency-Converter Characterization**
- *Defense Electronics* article: **COTS Gear Generates Multi-Emitter Test Signals**
- Application note: **Unmatched Versatility from IQ Modulation to Radar**



Access these new application notes:

- *Streaming, Analysis and Playback of RF Interference Signals in Aerospace and Defense Applications*
- *Designing, Verifying and Testing Stepped-Frequency Radar Systems for Commercial and A/D Applications*
- *Creating Multi-Emitter Signal Scenarios with COTS Software and Instrumentation*

[request application notes >](#)

View new videos for your measurements and applications



Download from Agilent.com or go to

Explore new tools for your radar test challenges



Digital upconversion takes radar testing one step further. A new video (*Best IF Signal Quality*) shows how the M8190A arbitrary waveform generator (AWG) can produce IF signals -- directly. A related series of application notes, which discuss Signal Studio for pulse building, will help you create signal scenarios that push your designs to the limit. Also, for accurate generation of pulses, standard waveforms, arbitrary waveforms and noise, don't miss the new primer.

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Carry precision into the field with handheld analyzers



Our new FieldFox handheld analyzers (up to 26.5 GHz) are ready to earn a spot in your field kit. Watch the new **FieldFox application videos** that cover cable and antenna testing, time-domain measurements and spectrum and interference analysis.

Go deeper in your analysis work with the techniques described in **three recent application notes**. You can also read about the importance of identifying and reducing interference to ensure the proper operation of wireless systems: check out the article **Testing Interference in a Wireless Environment** from *Wireless Design Magazine*.

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Accelerate multiantenna calibration and testing



Successful antenna calibration or channel sounding depends on synchronous, phase-coherent data acquisition on multiple channels. Visit our Web site to view an online demo. As you'll see, the foundation is the outstanding bandwidth, flexibility and dynamic range of the M9703A AXIle digitizer.

[view demo >](#)

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Eliminate RF interference problems with XCOM – Solution Partner Highlight



Capture the RF spectrum and store it for analysis using X-COM's Spectro-X signal analysis toolkit. When you combine Agilent's PXIe data-streaming solution with Spectro-X's ability to analyze large amounts of captured data, you're equipped with a powerful toolkit that lets you diagnose communication system anomalies and identify RF signals--expected or unexpected.

[download solution brief >](#)

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Analyze frequency stability with new tool



Get the "Stability Analyzer 53230A" program from MATLAB Central: it analyzes counter/timer frequency measurements to reveal the stability of clocks, oscillators, and more. Example uses include improved error checking and Allan or Hadamard deviation calculations.

[download software >](#)

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YouTube:

- **Generation and analysis techniques for cost-efficient SATCOM measurements**
See how to make SATCOM-type wideband, high-frequency measurements.

[view video >](#)

- **Measure wideband radar signals**

Learn how to correct the amplitude flatness of the IF spectrum and produce flat IF frequency and response across the entire bandwidth.

[view video >](#)

- **Easy signal emulation for radar and EW test**

See how to program an AWG and source to emulate the pulse pattern of an ASR-11 airport surveillance radar. The pattern is also characterized using an analyzer running a pulse-analysis application.

[view video >](#)

- **When does phase noise matter?**

This video uses radar and OFDM examples to help you better understand phase noise needs and tradeoffs.

[view video >](#)

- **Discover the smarter solution for your millimeter-wave applications**

See how the embedded features of the M1970E/VW harmonic mixers work with the PXA and EXA signal analyzers to simplify your test setup.

[view video >](#)

- **Ensure measurement accuracy for the life of your instruments and systems**

Not all calibrations are equal. This video series shows the important differences between calibration service providers and outlines the benefits of compliance with ISO 17025 and Z540.

[view videos >](#)

- **Simulating power supply noise**

Designs ranging from radio transceiver chips to aircraft radar assemblies require the testing of power supply noise immunity or power supply rejection ratio (PSRR). See two economical ways to add noise signals to power supply output levels.

[visit blog >](#)

Handheld DMM wireless remote connectivity solution (WRC) giveaway



Enter to win a WRC kit consisting of a U1273A OLED HH DMM and a U1177A IR-Bluetooth® adapter.

[enter giveaway >](#)

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